

PHENIX WEEKLY PLANNING



Feb. 13, 2014
Don Lynch

This Week

TECHNICAL SUPPORT NO-14

- Run 14 Continues, first collisions
- Plan/Install MPC-Ex FEM & Rack
- Continue F/VTX commissioning; FVTX troubleshooting
- Tech Support for Run 14 as required
- Access yesterday: Background counters troubleshooting
- Install new ethane tube trailer
- Support for sPHENIX efforts as required
- More snow?



2/13/2014

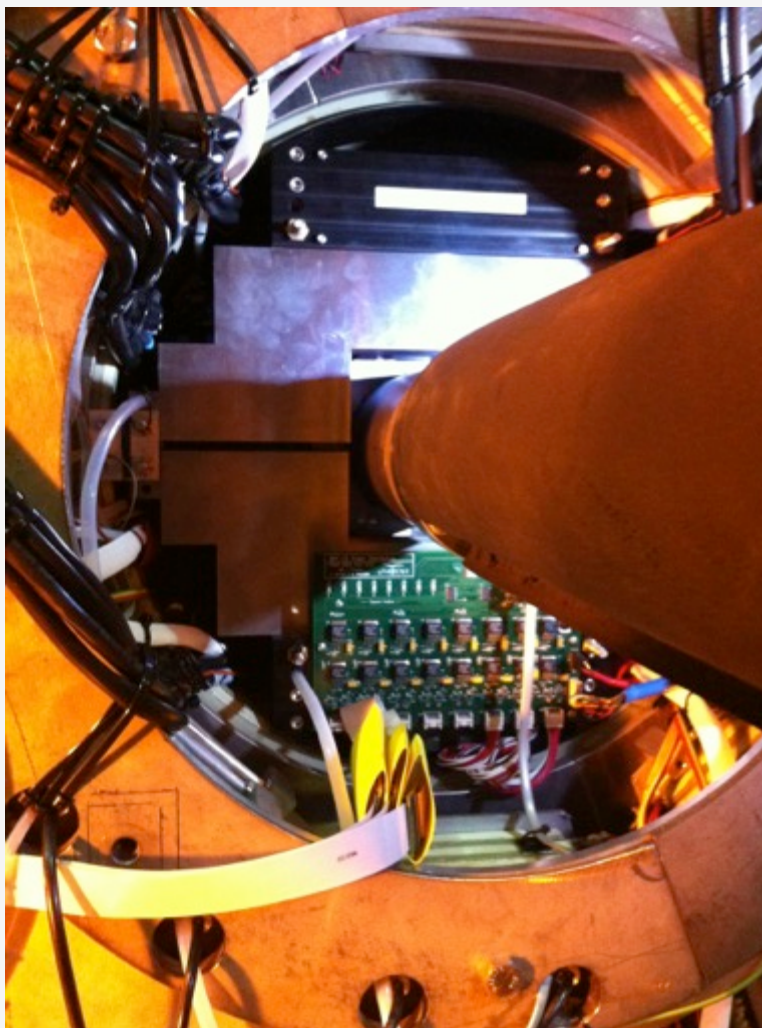
Next Week

- Presidents Day Lab Holiday Monday
- Run 14 Continues
- Plan/Install MPC-Ex FEM
- Continue F/VTX commissioning
- Tech Support for Run 14 as required
- Support for sPHENIX efforts as required



MPC-Ex Initial (Partial) Installation

PHENIX - PROGRESS REPORT - 2014



Mechanical installation complete
Services connected
Rack assembly & FEM assembly waiting for
final FEM modules

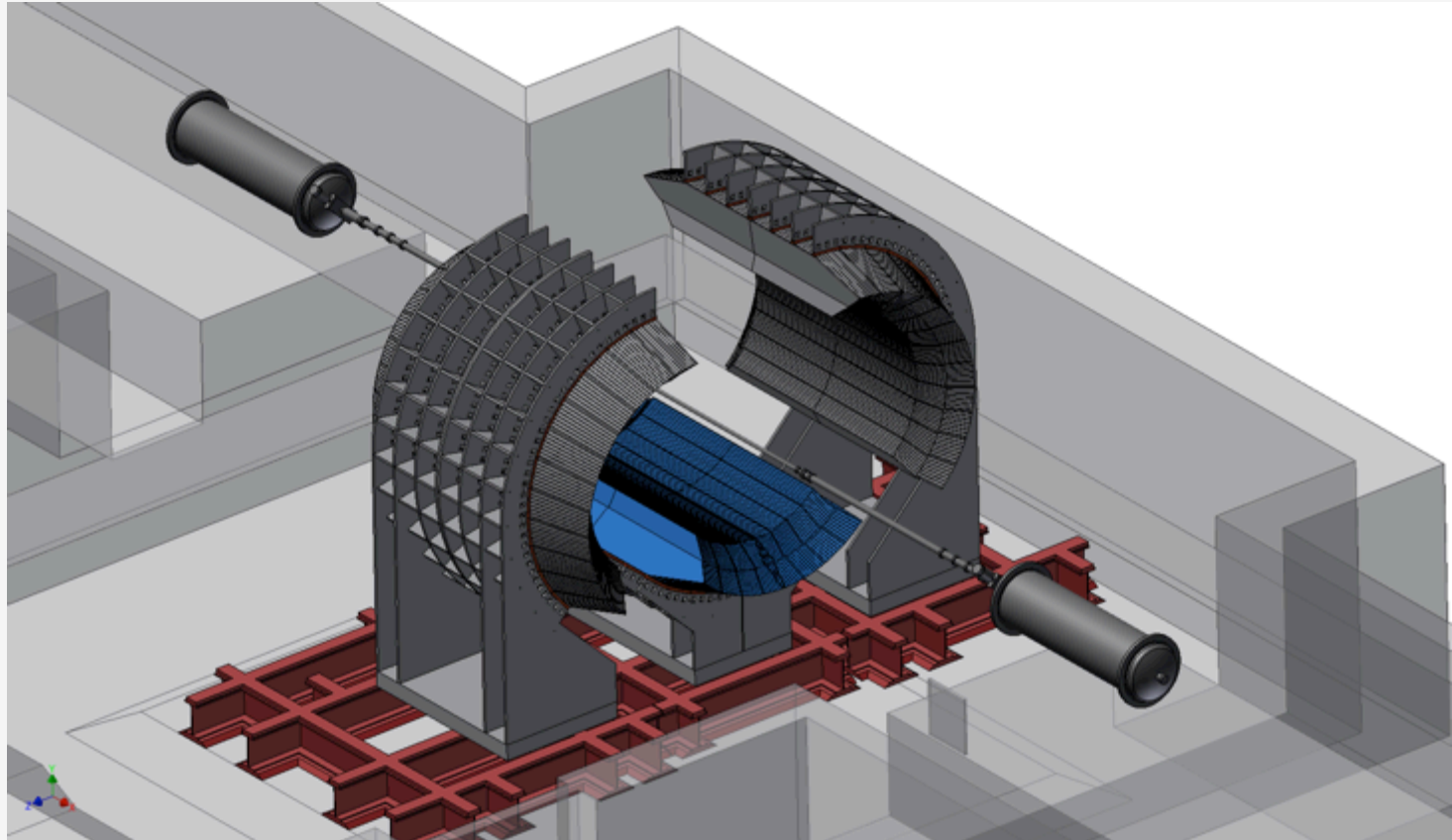
sPHENIX Prototype Beam Test @Fermilab



2/13/2014

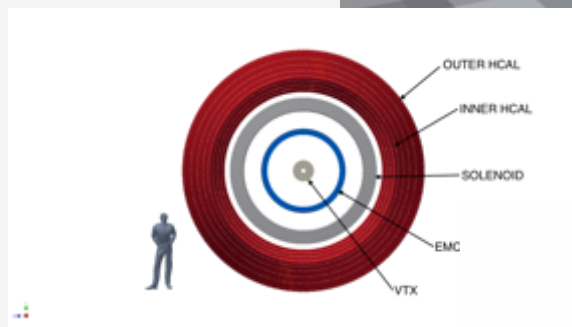
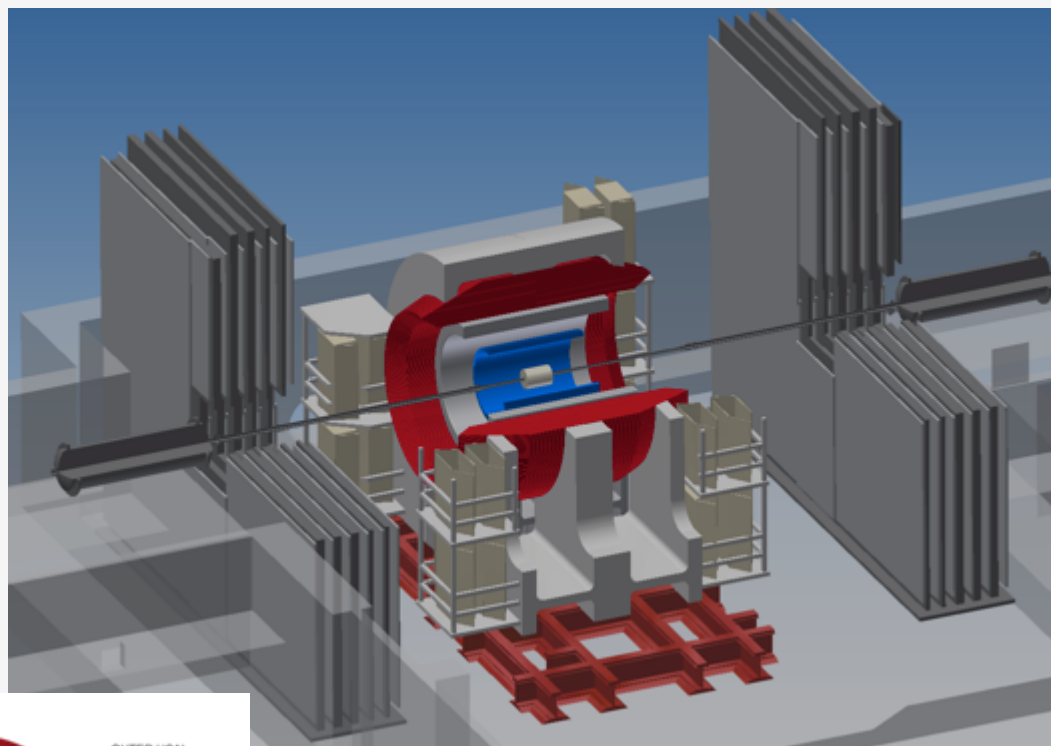
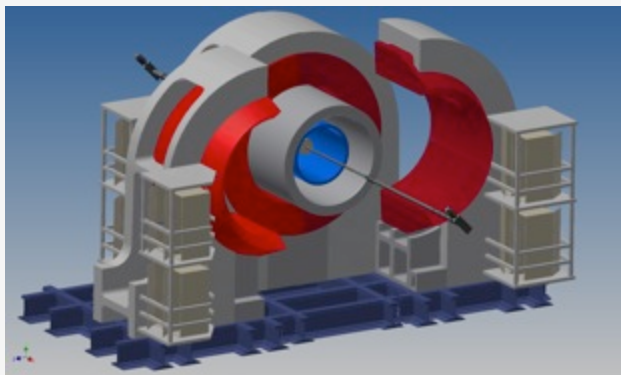
Test of combined EMCAL and HCAL prototypes
at Fermilab in Feb 2014

sPHENIX Support Structure Design

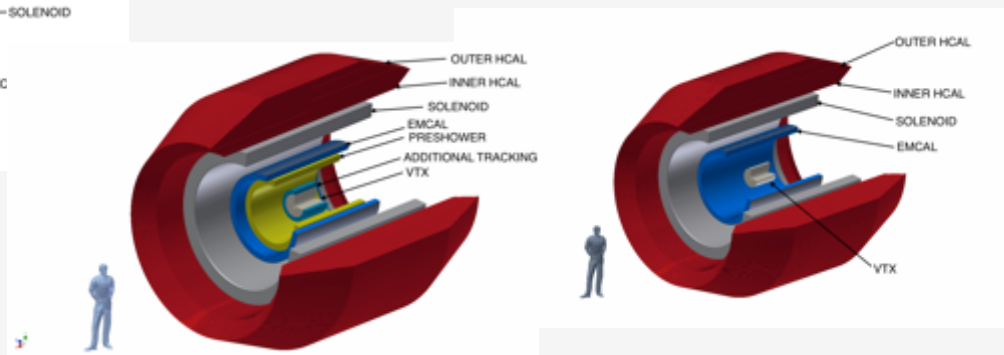


TECHNICAL SUPPORT NO. 4

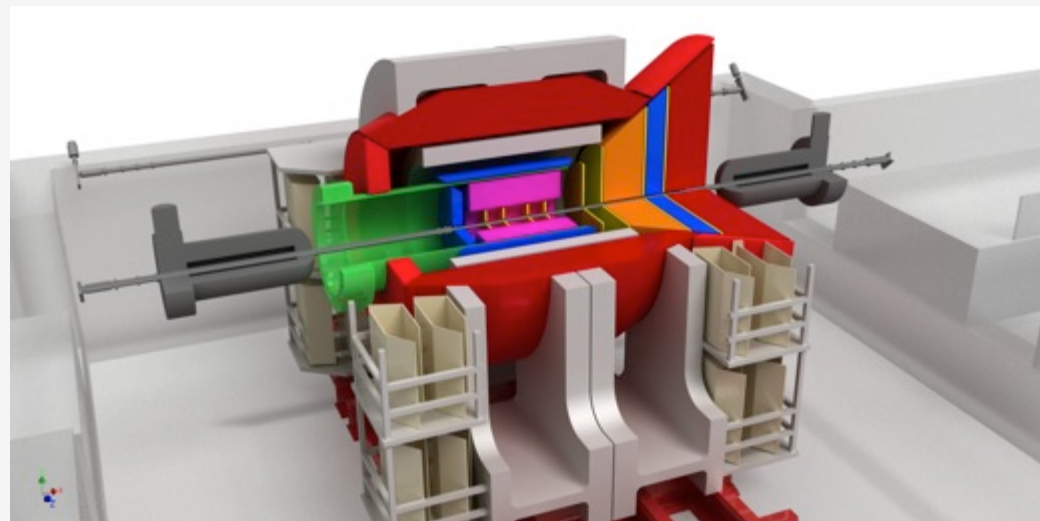
2/13/2014



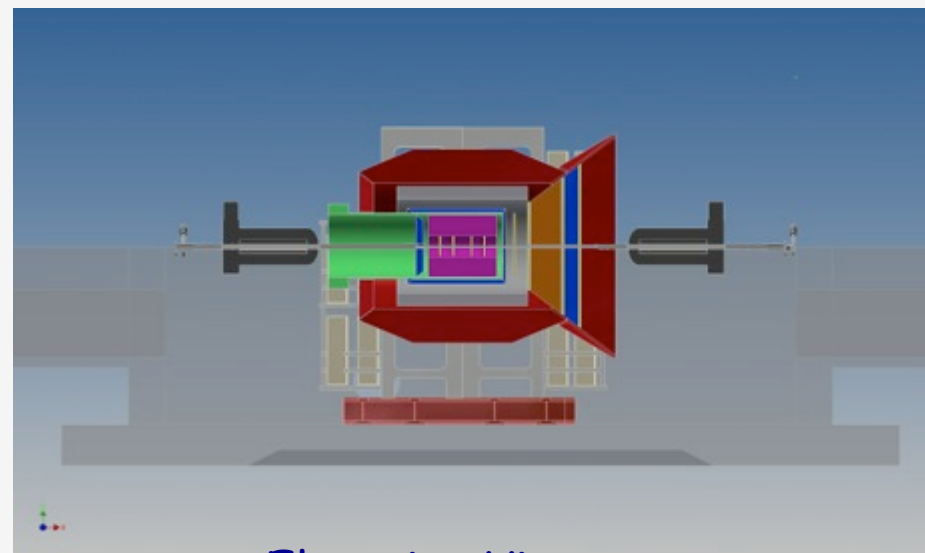
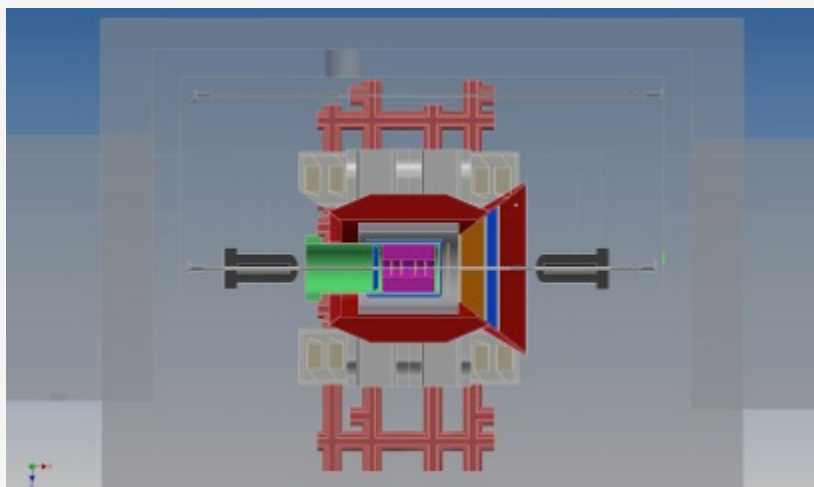
sPHENIX Modeling
support for
updated MIE



ePHENIX



Plan View



Elevation View

2/13/2014

PHENIX Annual Safety Review: Action Items (Continued) Safety and Security

- Complete the platform gates installation (Phillips Jan 15, 2014)
Dave is still working on this, (hopefully to finish this week?) (Note: this is not required for run start sign off)
- Document the new ethane installation and leak and pressure testing (Biggs Jan 15, 2014) *In Progress*
- Carry out an inspection of the installed platform gates (Cirnigliaro Feb 1, 2014)
Dave must schedule the carpenters to finish this work then Cirnigliaro can do his walk thru. (Next week ??)

General:

- Update the documented work procedures. (Lynch Continuing)
There is only one procedure needing updating (MuID gas OPS) I have done a preliminary review and made some minor corrections, Rob has it next. Expect to have update completed by end of next week, 1/24/14. No other mandatory updates due in 2014, but will continue to monitor procedures and make updates if the need arises. (Note: this is not required for run start sign off)
- A walk through of the PHENIX detector prior to introduction of flammable gas. (Makdisi et al Jan 10, 2014) *Done, all walkthru action items addressed*

PHENIX Annual Safety Review: Action Items (Continued) Safety and Security

- A walk through of the PHENIX detector prior to introduction of flammable gas. (Makdisi et al Jan 10, 2014)
Done, See next page for action items from walkthru

2014 planned Technical Support & 2014 Shutdown

TECHNICAL SUPPORT 2014

Support for run 14	2/3-6/30/2014
Support for sPHENIX prototype tests at FermiLab	1/21-2/25/2014
Procure & Fabricate parts for MPC-Ex North and South	1/1/2014-6/30/2014
Assemble & test MPC-Ex South, ready for installation	3/1-7/1/2014
End of Run Party	7/11/14?
Assemble & test MPC-Ex North, ready for installation	7/1-9/25/2014
Start of Shutdown Tasks (purge flammable gas, disassemble and stow shield wall, remove collars, move EC to AH, Move MMS south, etc.)	7/14 - 7/25/2014
Install scaffolding in Sta 1 South	7/28/2014
Remove MPC-Ex prototype, Install new MPC-Ex South	7/28-8/22/2014
Maint. & Repairs for MPC South, BBC South, RPC1 South, MuTr sta 1 South, as necessary	7/28-8/22/2014
Remove scaffolding from sta 1 south, Move CM South	8/25/2014
Install scaffolding in Sta 1 North	8/26-8/29/2014
Prep MPC-Ex North installation area	9/1-9/26/2014
Install new MPC-Ex North	9/29-10/17/2014
Remove Sta 1 North scaffolds, Move CM North	10/20-10/24/2014
Other detector support	TBD
Infrastructure Maintenance and Improvement	TBD
Decommissioning of obsolete PHENIX detector equipment	TBD
sPHENIX Support	on-going
End of Shutdown Tasks (Move MS north, roll in EC , install collars, remove 10 ton cart, plates and manlifts, build shield wall, etc.)	10/27-11/26/2014
Pink/White/Blue Sheets	1/17/2014
End of Shutdown Party	???
Start Flammable gas flow	???
Close shield wall, install radiation interlocks and prepare for run 14	12/31/2014
Start run 15	1/2/2015

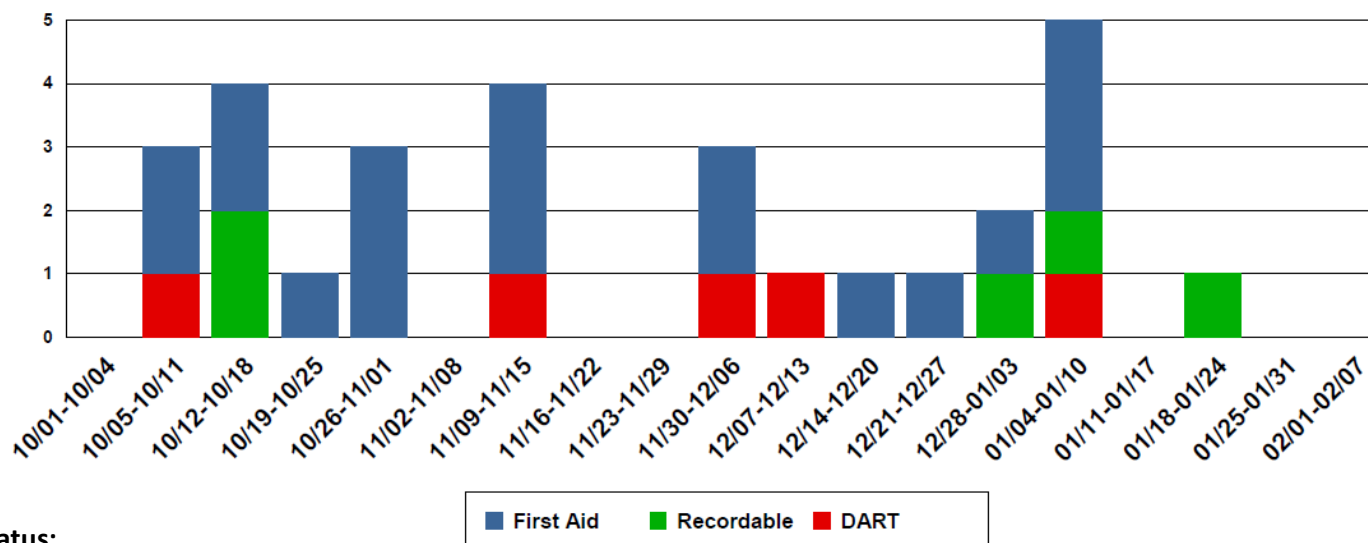
From Ray Karol:

[YouTube Video: Real hazards of compressed oxygen cylinders](#)

[YouTube Video: Walk like a penguin](#)



Injuries Per Week (FY)
As of 2/7/2014



Injury Status:

FY14 YTD: DART – 5, TRC – 9, First Aid – 19

FY13: DART – 14, TRC – 37, First Aid – 53

FY12: DART – 19, TRC – 38, First Aid – 69

FY13 Injury Listing: <https://intranet.bnl.gov/esh/shsd/seg/OccInj/BNLInjuries.aspx>

Recent Injuries

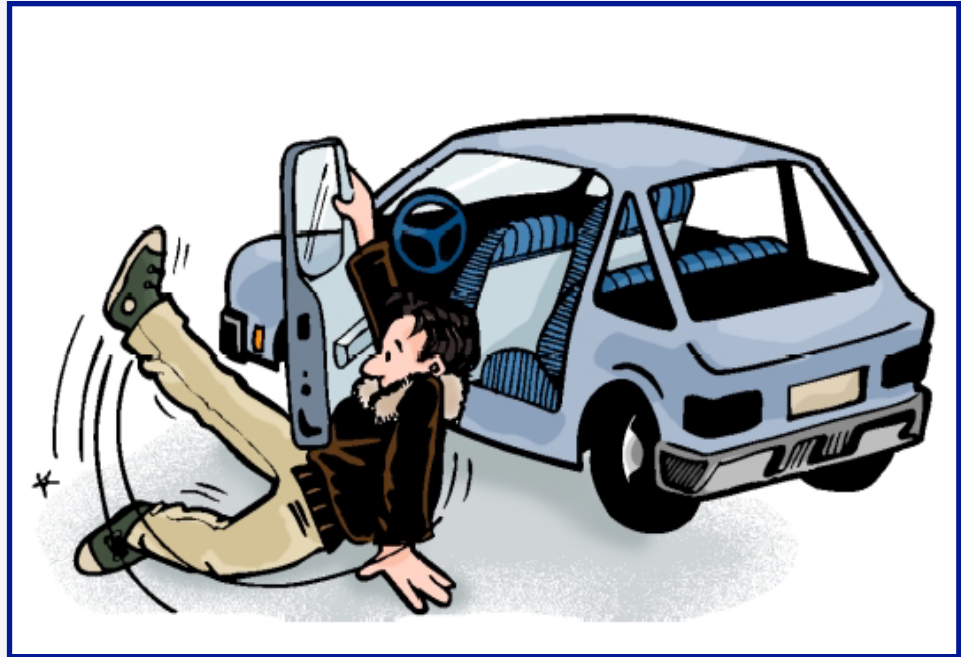
1/21/14	Recordable	An employee fell on an icy sidewalk. Several days later, he was seen in an ER and by an orthopedist, who prescribed an antibiotic.
1/10/14	Recordable	An employee slipped and fell on an icy surface. After examination and first aid at OMC, he was driven to a local ER and returned to normal duties. <u>Update:</u> This case is now recordable due to medication prescribed at the ER.

Take Care: Tips to Avoid Slips, Trips, and Falls



Take Care...

...Taking That
First Step From
Your
Vehicle



Slips and falls occur when exiting a vehicle because of surface changes, balance change, uneven or slippery surfaces, and distractions. **Take Care: Keep 2-hand contact with the car until you're sure of solid footing. Pay attention to your environment.**

Take Care...

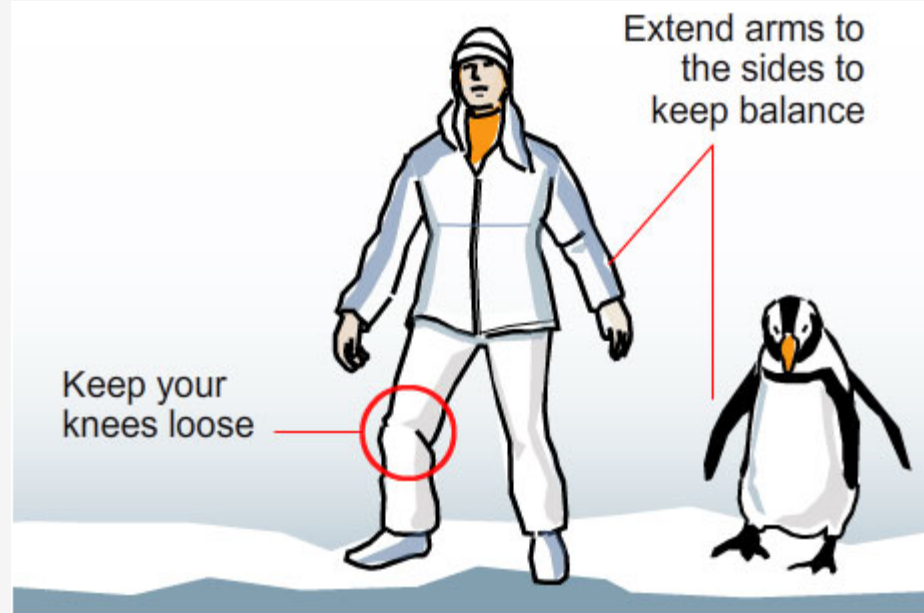
...To Wear
Proper Footwear
Appropriate For
Conditions



Smooth soles and high heels do not provide good traction during fall, winter and early spring conditions at BNL. **Take Care: Wear non-slip or lug soled shoes or use traction devices on your footwear while walking outside.**

Take Care...

...To Walk Like a Penguin



Fast, long steps with fully extended legs makes you vulnerable to slips. Take Care: Walk like a penguin for greatest stability! Keep your knees loose and extend arms at your side for balance. Bend forward a little and walk flat-footed with your feet pointed out slightly. Take short steps or shuffle.

Take Care...

...To Wear Traction Devices for Icy and Snowy Conditions

Traction devices maximize friction coefficient, and minimize fall potential.

Take Care: These devices help but do not make you invincible. Follow all other precautions for slick conditions and **DO NOT** wear the traction devices inside!



Take Care...

...Going Up and
Down Stairs



Stairways are common slip, trip, and fall areas and deserve extra attention. **Take Care:** Always use the handrail while going up and down stairs. Avoid distractions such as talking, using cell phones or reading while walking on stairways. Use elevators if carrying items.



Take Care...

...Inside To Avoid Common Slip, Trip, and Fall Hazards



Wet floors and curled rugs at entryways, open drawers, standing on chairs, and poor housekeeping cause many unnecessary injuries. **Take Care: Be diligent about housekeeping, know your surroundings, carry small loads, and use the correct equipment for the job.**

Take Care...

...To Notify Your Supervisor if:

- ❖ You are aware of any unsafe conditions.
- ❖ Receive a workplace injury, no matter how minor.



Conditions can change quickly. With your input, we can address safety issues quickly too. **Take Care: Keep yourself, co-workers, and visitors safe by correcting conditions that you can or notifying your supervisor of any safety concerns.**

Recent Events

2/3/14	Non-Reportable	All incoming telephone service to BNL was down as the result of a service provider outage. BNL phones had "in house" capabilities and the Emergency line was functioning. The Information Technology Division (ITD) was in contact with the carrier and worked with them to restore service as quickly as possible. ITD confirmed all Laboratory phones were functioning properly as of 4:35pm on 2/3/14. (Event Link)
1/31/14	Non-Reportable	In response to a radio call that a vehicle failed to stop at the main gate entrance, a police vehicle proceeded southbound on Yale Rd. with emergency lights and siren on. The officer approached the stop sign at Yale Rd. and East St. and made a right turn onto East St. As he turned, he went around a private vehicle, which had also made the right turn onto East St. and pulled over to let the police vehicle pass. While going around the pulled over private vehicle, the passenger side rear bumper (of the police vehicle) contacted the private vehicle's driver side front bumper, causing damage to the driver's side front fender and bumper. (Event Link)
1/31/14	Non-Reportable	An occupant turned on the light in Rm. 9-56C in Bldg. 490 and heard a popping sound, after which the light went out. The smell of smoke prompted the occupant to call Fire/Rescue who responded to the scene. No odor was observed by Fire/Rescue upon arrival. Fire/Rescue verified that no smoke or flames existed. (Event Link)
1/30/14	SC-BNL	While processing material in Building 801 for Sr-82 production, it was noted that about 30% of the product was transferred from the hot box to the ventilation system acid scrubber. This exceeded the procedural limit of material loss for processing Sr-82. Because of this operational problem, the Collider-Accelerator Department has decided to declare this an SC-BNL management concern (as no other ORPS Category criterion threshold was reached) and investigate to determine how to improve processing operations to preclude such losses in the future. (Event Link)
1/29/14	Non-Reportable	On January 24, 2014, BNL shipped four (4) Biodex packages with medical nuclides to GE Healthcare in South Plainfield, NJ. Each package contained approximately 1,390 mCi of Sr82/Sr85. The contact dose rate measurements on the packages were 160 mRem/h, 150 mRem/h, 170 mRem/h, and 150 mRem/h. These measurements were obtained using an RO-20 ion chamber survey meter. The packages were transported by FedEx and delivered on January 27, 2014. GE Healthcare performed their incoming survey and found contact dose rates ranging from 233 mRem/h to 360 mRem/h. These readings were obtained using a Ludlum 375 with an HP-270 probe. The Department of Transportation (DOT) limit for these packages is 200 mRem/h. As a result of the elevated readings, GE Healthcare was required to report the issue to their regulator, The State of New Jersey. BNL was initially informed on January 29, 2014, and has requested more information from GE Healthcare about their survey instruments. BNL's Radiological Control Division and the Packaging and Transportation Group will be investigating this situation further. (Event Link)
1/25/14	Non-Reportable	A steam pipe broke in the vestibule of Building 400. There were no injuries and no environmental impact. (Event Link)

2/13/2014



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Where To Find PHENIX Engineering Info

Run 14 Continues!

Lab Holiday Monday: Presidents Day



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

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